

# SYSTEM SUPPORT DIRECTIVE

ASR-9

6310

SSM-ASR9-006

## System Support Modification

### AIRPORT SURVEILLANCE RADAR-9, REMOTE SCIP CIRCUIT BREAKER WIRING CORRECTION

#### Highlights

- Rewire CB1A/B
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April 29, 1999

1. **PURPOSE.** This System Support Modification (SSM) provides direction for sites to check and modify the Remote Surveillance Communications Interface Processor (SCIP).
2. **DISTRIBUTION.** This directive is distributed to selected field offices and services within Washington headquarters, regional Airway Facilities divisions, William J. Hughes Technical Center, Mike Monroney Aeronautical Center, and the Airway Facilities offices having the following facilities/equipment: ASR-9.
3. **WITHDRAWALS/CANCELLATIONS .** Not applicable.
4. **REFERENCES.** The following reference is made: Hardware Discrepancy Report (HDR) 12167053V.
5. **BACKGROUND.** Some sites have reported that the alternating current (ac) power circuit breakers on the Remote SCIP are wired opposite of the Technical Instruction (TI) book 6310.31, ASR-9 System Remote SCIP. In Figure 11-10, Remote SCIP AC Power Distribution Diagram (Sheet 1 of 2), on page 11-75/11-76, and in Figure 11-13, Remote SCIP Major Components (Sheet 5 of 5), on page 11-117/11-118, the circuit breaker on the left is wired as CB1B when it should be wired as CB1A.
6. **APPLICATION.** This modification applies to all ASR-9 facilities and regional offices, including the Mike Monroney Aeronautical Center.
7. **MATERIALS REQUIRED.** The materials required to perform this modification will be supplied in the form of a modification kit. The kit NSN (0000-00-012-1582) consists of the following item:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>NSN/PART NUMBER</u>	<u>QUANTITY</u>
(1)	Label for (A - CB1 - B)	N/A	1 each

**DISTRIBUTION:** Selected Airway Facilities Field  
and Regional Offices

**INITIATED BY:** AOS-270

99-0071

8. **SOURCE OF MATERIALS.** The modification kit is to be ordered through the Logistics and Inventory (LIS) system at the FAA Logistics Center. In order to prevent depletion of the material, order only the quantity required. If problems arise in receiving the kit, site personnel should contact NSD Section, AML-622, directly by telephoning (405) 954-4421.
9. **SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED.** Not applicable.
10. **PROCEDURE TO BE PERFORMED BY.** This modification is to be performed by field maintenance personnel or as determined by the Regional Airway Facilities division manager.
11. **WHEN MODIFICATION IS TO BE PERFORMED.** This modification is to be performed as soon as possible after receipt of this SSM and required materials.
12. **ESTIMATED TIME REQUIRED.** This procedure will require one technician for 1.5 employee-hours.
13. **DISPOSITION OF SURPLUS PARTS.** Not applicable.
14. **PROCEDURE.**

**NOTE 1:** Read the entire procedure prior to starting this modification.

**NOTE 2:** Appendixes 1 and 2 are for reference only – no change pages were made to the TI document.

- a. Turn OFF the upper left circuit breaker CB1A. Check if SCIP A or SCIP B is powered off. If SCIP A is powered down, the unit is wired correctly; go to paragraph 19. If SCIP B is powered down, go to the next step in paragraph 14b.
- b. Return the circuit breaker to the ON position and ensure that the SCIP is operating error free.
- c. Turn the power OFF at the SCIP cabinet.
- d. At the main power panel, locate the circuit breaker that controls the power to the Remote SCIP cabinet and place it in the OFF position.
- e. Remove the breaker panel at the top of the SCIP.
- f. Remove the four screws holding CB1 and CB2.
- g. Cut the tie wraps holding the wires on CB1 and CB2 to get some slack for flexibility.
- h. Swap positions of the CB1 and CB2.

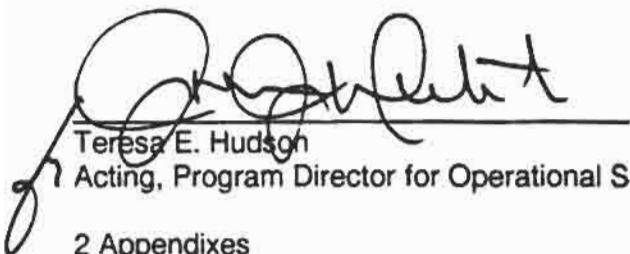
- i. Secure CB1 and CB2 with the four screws removed in paragraph 14f.
  - j. Locate on the back of the breaker panel and remove the silk screen below marked (A - CB1 - B).
  - k. On the front of the breaker panel, install the supplied label marked **A - CB1 - B** directly under CB1.
  - l. Reinstall the breaker panel into the SCIP using the hardware removed in paragraph 14f.
  - m. At the main power panel, locate the circuit breaker that controls the power to the Remote SCIP cabinet and place it in the **ON** position.
  - n. Power up the SCIP cabinet and ensure it cycles error-free.
15. **TESTS AFTER MODIFICATION.**
- a. Turn CB1A providing power to SCIP A and Power Supply No. 1 (left breaker) to the **ON** position.
  - b. Ensure that SCIP A goes through the normal start-up testing without alarms.
  - c. Turn CB1B providing power to SCIP B and Power Supply No. 2 (right breaker) to the **ON** position.
  - d. Ensure that SCIP B goes through the normal start-up testing without alarms.
16. **RESULT OF MODIFICATION.** This modification validates the CB1 and CB2 wiring to conform to the TI reference material.
17. **CHANGES TO INSTRUCTION BOOKS.** Not applicable.
18. **CHANGES TO INSTALLATION DRAWINGS.** Not applicable.
19. **CHANGES TO RECORDED DATA.** Prepare FAA Form 6032.1, Airway Facilities Modification Record, showing this directive number, date, and SSM number to change recorded data.
20. **ADDRESS CHANGES.** Submit facility address, directive copy count, and additions or deletions via cc:Mail to Pat Conner, AOS-530.
21. **CLARIFICATION OR COMMENTS.** Forward any recommendations for clarification or comments concerning this directive to the National Airway Systems (NAS) Engineering Division, AOS-200, Branch 270.

**22. STATUS ACCOUNTING.** Perform both the following status accounting activities:

- a. Ensure that the Quarterly NAS Equipment and SSM Status report is updated to indicate the installation of this modification.
- b. Use the Maintenance Management System (MMS) application Log Equipment Modification (LEM) function to report the completion of this modification. Verify that an "N" is in the "REP COD" field to ensure that the log entry will be upwardly reportable to the national data base for access by AOS. This directive should be entered into the LEM fields as follows:

- (1) Order No.: SSM-ASR9-006
- (2) Chapter: 006
- (3) Change: HW

**23. RECOMMENDATIONS FOR CHANGES.** Forward any recommendations for changes to this directive through normal channels to the Communications, Flight Service, Weather, and Information Resource Management Division, AOS-500.

  
Teresa E. Hudson  
Acting, Program Director for Operational Support

4/29/99  
Date

2 Appendixes

**LIST OF APPENDIXES AND ATTACHMENTS**

<u>Item</u>	<u>Description</u>	<u>Quantity</u>
Appendix 1	Figure 11-10, Remote SCIP AC Power Distribution	1 Sheet
Appendix 2	Figure 11-13, Remote SCIP Major Components	1 Sheet